

APPARATUS FOR PROTECTING ELECTRONIC CIRCUITRY

## ABSTRACT OF THE DISCLOSURE

5       A device for protecting the electronic circuitry of  
electrical appliances against damage from unacceptably high  
voltages. An element is interposed in the power supply paths  
which limits the application of an externally supplied  
excessive voltage to a predetermined time interval and which  
completely interrupts the current flow when the excessive  
10   voltage and current causes a heat build-up. This is  
accomplished by interposing pairs of spaced-apart solder  
surfaces at at least one point along the current paths to the  
electronic circuitry. One solder surface of each pair is  
connected to the power supply and the other to the power  
15   consumer. An element is soldered to the respective solder  
surfaces of the pairs and electrically closes the current  
path. A mechanically prestressed spring engages the element  
and reliably separates it from the solder surfaces when the  
solder melts due to excessive heating.

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